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APPLICATION NUMBER FILING DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NO. 12/12/94 887354,177 CHILLSRESS 41533 FXAMINER 13M1/1213 RUPERT & PURLEY JR ART UNIT WR GRACE AND CO - CONN FO BOX 464 PERSON SIGNATURE 1302 DATE MAILED: 12/13/96

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

## **OFFICE ACTION SUMMARY** Responsive to communication(s) filed on 9/19/9/ ☐ This action is FINAL. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O.G. 213. A shortened statutory period for response to this action is set to expire\_ whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a). Disposition of Claims is/are pending in the application. Claim(s) is/are withdrawn from consideration. Of the above, claim(s) Claim(s) Claim(s)\_ is/are rejected. is/are objected to. Claim(s) are subject to restriction or election requirement. ☐ Claims \_ **Application Papers** ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. \_\_\_\_\_ is/are objected to by the Examiner. ☐ The drawing(s) filed on \_ ☐ The proposed drawing correction, filed on \_\_\_ \_\_\_\_ is 🗌 approved 🔲 disapproved. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). ☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been received. received in Application No. (Series Code/Serial Number) received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \*Certified copies not received: \_ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) Notice of Reference Cited, PTO-892 ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_ ☐ Interview Summary, PTO-413 □ Notice of Draftsperson's Patent Drawing Review, PTO-948

- SEE OFFICE ACTION ON THE FOLLOWING PAGES -

☐ Notice of Informal Patent Application, PTO-152

Serial Number: 08/354177 Page 2

Art Unit: 1302

1. The 103 rejection of claims 1-29 over the Ferguson references is hereby withdrawn.

2. Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferguson (4770731) in view Elston and Chum et al.

Ferguson discloses a patch to be used with a heat shrinkable bag. The patch is heat shrinkable with the bag to reduce the tendency of delaminating. The patch comprises of two outer layers and two inner layers. The outer layers comprise 87% by weight of linear low density polyethylene, ethylene-vinyl acetate, pigments and additives and the inner layers comprise ethylene-vinyl acetate copolymer. The linear low density polyethylene has a density of .900 to .935 grams per cubic centimeter. (See col. 3 lines 16-30 ),

Ferguson does not disclose the patch and the bag is made of long chain branched homogenous ethylene alpha olefin copolymer.

Elston teach homogeneous copolymer of narrow molecular weight distribution exhibit a reduced haze level in extruded film, higher impact strength, reduced tendency towards delamination in extruded articles and better balance of physical properties in the machine and transverse direction of extruded film when compared with conventional heterogeneous copolymers ( see col. 2 lines 29-35 ).

Chum et al. teach the unique characteristic of the homogeneously branched, substantially linear ethylene polymers is a highly unexpected flow property where the I10/I2 value of the polymer is essentially independent of the polydispersity index of the polymer ( see col. 5 lines 41-45).

Serial Number: 08/354177 Page 3

Art Unit: 1302

It would have been obvious for one skilled in the art to substitute the homogeneous copolymer as taught by Elston for the LLDPE in the Ferguson patch and to also use it in the bag to obtain the properties described by Elston. The properties of the homogeneous copolymer are very favorable toward the goal of Ferguson in preventing or reducing the likelihood that a bone will completely puncture and rupture the bag and patch combination. It would also have been obvious for the homogeneous copolymer to be homogeneous branched copolymer if the property as described by Chum et al. is desirable. Applicant is not the first to use and recognize the advantage of homogeneous copolymer. The use of an adhesive to adhere the patch to the bag as claimed in claim 2 is conventional and would have been obvious to one skilled in the art. The amount of shrink claimed in claims 8-10 is an obvious controlled parameter. It would have been obvious to have the patch shrinking at rate which is compatible with the bag to obtain the most optimum result. As to the limitation of putting additional patches as claimed in claim 26, it would have been obvious for one to do so if it is desired to increase the strength of the patched area of the bag.

3. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lien Tran whose telephone number is (703) 308-1868. The examiner can normally be reached on Mon-Fri from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Esther Kepplinger, can be reached on (703) 308-3229. The fax phone number for this Group is (703) 305-3601.

Serial Number: 08/354177 Page 4

Art Unit: 1302

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0648.

December 6, 1996

Lien Tran

Patent Examiner

Group 1300